Manitoba

Health
Health and Healthy Living
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Dear Colleague,

Please find attached the Summary of Communicable Diseases for the Month of December 2007. This information includes the number of reported cases of notifiable communicable diseases for which individuals in Manitoba tested positive* on laboratory samples, during the month of December 2007.

Communicable Diseases

In total, there were **359** new infections occurring across 29 communicable diseases** (excluding sexually transmitted infections and HIV) in December 2007. The observed numbers of cases were within the statistically expected range for all of the reported communicable diseases with the exception of the following diseases:

- Lyme Disease – 1 case was reported, 0 cases expected
- MRSA – 169 cases reported, 0 – 156 cases expected
- Necrotizing Fascitis – 5 cases reported, 0 – 3 cases expected
- Strongyloidiasis – 7 cases reported, 0 – 1 cases expected
- Nonrespiratory Tuberculosis – 5 cases reported, 0 – 4 cases expected

The expected number of cases and accompanying range is based on the statistical number of cases during November, December and January, 2002-2007.

Lyme disease has seasonal variation, with a cases usually occurring during the summer months of each calendar year. A specific case definition is required to be met to be included as a confirmed case within the Public Health Surveillance System (see Manitoba Health and Health Living Case Management Protocol Manual). Together MRSA and *Clostridium difficile* accounted for 71% of all non-STI/HIV related communicable diseases reported to Manitoba Health. MRSA positive results within Manitoba include both individuals who are symptomatic of infection and colonized individuals, who have no symptoms and are found with screening activities at facilities. *C. difficile* cases tended to be concentrated in the 60+ age group, while cases of MRSA were reported in all age groups.

Sexually Transmitted Infections & Blood-Borne Pathogens

There were **557** cases of sexually transmitted infections (chlamydia, gonorrhoea, and syphilis) in December:

- 504 cases of chlamydia
- 97 cases of gonorrhoea and
- 3 cases of syphilis

Forty-four percent of all GC and Ct cases in the province were reported among females of age group 15-24 years. 46% all GC and Ct cases were reported for individuals living in the Winnipeg Health Region and an additional 28% were from the Burntwood Health Region.

In December, 23 individuals tested positive for Hepatitis C virus (HCV) in Manitoba. Three Manitobans tested positive for HIV in December. A new case of HIV infection is defined as a positive test with a unique code that has not been previously associated with a positive test result in Manitoba. The cases reported in December were all males, between 40 and 59 years of age.

***Note**: Data for the monthly summary are aggregated based on the earliest of: symptom onset date, specimen collection date, or report date. For the majority of cases, the date used will be the specimen collection date.

****Note**: The following communicable diseases are reportable to the Director of Communicable Disease Control for surveillance purposes and are <u>not referred out</u> for public health follow-up:

- Ascariasis (ICD9: 127.0)
- Leishmaniasis – unspecified (ICD9: 085.9)
- Methicillin or vancomycin resistant *Staphylococcus aureus* (MRSA/VRSA)
- Schistosomiasis (ICD9: 120)
- *Streptococcus pneumoniae* – other site (ICD9: 041.2)
- *Strongyloides* (ICD9: 127.2)
- Vancomycin resistant enterococci (VRE)

The following communicable diseases are reportable to the Director of Communicable Disease Control for surveillance purposes and are referred out to public health <u>for information only</u>:

- Viral Meningitis – CoxSackie
- Viral Meningitis – Echo
- Viral Meningitis – Entero
- Viral Meningitis – H. simplex (Epstein Barr, CSF only)

All other diseases are referred out for further public health <u>follow-up and investigation</u>

Please feel free to contact me should you have any questions about this report.
Thank you.

Sincerely,

Myrna Dyck BN, MSc
Epidemiologist, Communicable Diseases
Public Health Surveillance System
Manitoba Health and Healthy Living

SUMMARY OF COMMUNICABLE DISEASE FOR December 2007

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2006	2007	Expected*	Ex. Range**	2006	2007
006.9	AMEBIASIS	2	5	3	0-6	38	41
022	ANTHRAX				***	1	
127.0	ASCARIASIS			0	0-2		1
005.8	B. CEREUS			0	0-1		2
320.82	BAC. MENINGITIS - E.COL			0	0-0		
320.0	BAC. MENINGITIS - HAEM	1		0	0-0	1	
320.9	BAC. MENINGITIS - OTHER			0	0-1		1
320.1	BAC. MENINGITIS - PNEUM	2		0	0-1	5	4
320.3	BAC. MENINGITIS - STAPH			0	0-1		
320.2	BAC. MENINGITIS - STREP			0	0-1		
320.7	BAC.MENINGITIS-LISTERIA				***		
116.0	BLASTOMYCOSIS	3			***	7	17
005.1	BOTULISM				***		
023	BRUCELLOSIS	1		0	0-0	1	1
005.2	C. PERFRINGENS		1	10	0-71	7	7
008.43	CAMPYLOBACTER	14	16	12	3-21	233	230
558.2	CLOSTRIDIUM DIFFICILE	116	70		***	1148	985
046.1	CREUTZFELD-JACOB DISEASE				***	2	1
007.8	CRYPTOSPORIDIOSIS		2	1	0-3	30	71
061.0	DENGUE FEVER			0	0-0	2	1
065.4	DENGUE HEMORRHAGIC FEVER			0	0-0		
V02.4	DIPH.CARRIERS		1	0	0-1		2
032	DIPHTHERIA CASES			0	0-0		2
123.4	DIPHYLLOBOTHRIUM SPP			0	0-1	7	16
008.0	E. COLI-VEROTOXIGENIC	8	2	3	0-9	170	46
054.3	ENCEPHALITIS			0	0-1	1	
005.9	FOOD POISONING OTHER	1		0	0-1	2	
007.1	GIARDIA LAMBLIA	11	7	10	2-18	137	102
041.5	H.I.B.-NON MTGS			0	0-1	1	1
041.59	HAEM. INFLUENZAE (non-B)				***	2	8
480.8	HANTA VIRUS			0	0-0		1
283.11	HEMOLYTIC UREMIC SYNDROME			0	0-0		1
070.1	HEPATITIS A		1	1	0-4	14	8
070.3	HEPATITIS B			0	0-1	6	5
070.51	HEPATITIS C	21	23	38	19-57	325	347
054.8	HERPES-W-UNSPEC COMPL	1		0	0-1	6	3
487.1A	INFLUENZA A	1	1		***	65	71
487.1B	INFLUENZA B		1		***	25	2
A83.0	JAPANESE ENCEPHALITIS				***		
482.83	LEGIONELLA			0	0-1	2	1
085.9	LEISHMANIASIS			0	0-0		
030.9	LEPROSY			0	0-0	2	
027.0	LISTERIA MONOCYTOGENES		1	0	0-1	6	2
088.81	LYME DISEASE		1	0	0-0	2	7
084	MALARIA		1	0	0-2	17	17
055.9	MEASLES			0	0-1		
036.0	MENINGOCOCCAL CSF			0	0-1	1	3
036.82	MENINGOCOCCAL ARTHROPATHY				***		
036.2	MENINGOCOCCEMIA BLOOD			0	0-1	1	1
B95.6	MRSA	131	169	64	0-156	1694	2112
072.9	MUMPS	2	1	0	0-1	3	8
036.89	N.MENINGITIDIS OTHER	1	1	0	0-1	2	2
728.86	NECROTIZING FASCIITIS	3	5	1	0-3	21	20
729.1	NECROTIZING MYOSITIS				***		
323.9	OTHER ENCEPHALITIS			0	0-0		1
033.1	PARAPERTUSSIS				***		

* Mean of 15 month totals, from previous, comparable and subsequent months for the past 5 years

** Mean +/- 2 standard deviations of mean

*** Data collected for less than 5 years.

		MONTHLY TOTAL				YEAR-TO-DATE	
ICD9	DISEASE/INFECTION	2006	2007	Expected*	Ex. Range**	2006	2007
002.9	PARATYPHOID			0	0-0		
027.2	PASTEURELLA MULTOCIDA				***		
033.0	PERTUSSIS	1	1	6	0-14	12	18
038.2	PNEUM. SEPTICEMIA	9	12	7	2-12	124	98
073.9	PSITTACOSIS			0	0-0		
083.0	Q FEVER			0	0-0		
331.81	REYE'S SYNDROME				***		
391	RHEUMATIC FEVER			0	0-0		1
056.9	RUBELLA			0	0-0		2
771.0	RUBELLA CONGENTIAL			0	0-0		
041.2	S.PNEUM.OTHER			1	0-3		4
003.0	SALMONELLA	7	13	13	2-24	144	209
120	SCHISTOSOMIASIS	1		0	0-1	2	1
004	SHIGELLOSIS		1	1	0-4	11	15
050.9	SMALLPOX				***		
005.0	STAPHYLOCOCCAL			0	0-0		
785.5	STAPHYLOCOCCUS AUREUS	2			***	3	2
481.9	STREP PNEUMONIA - PR			0	0-1		1
711.0	STREP.PNEUM.ARTHRITIS			0	0-1	1	
580.0	STREPT GLOMERULONEPHRITIS			0	0-0		
040.89	STREPT TOXIC SHOCK			0	0-1		
481	STREPTOCOCCUS PNEUMONIAE			0	0-0	1	3
127.2	STRONGYLOIDES		7	0	0-1	5	24
037	TETANUS			0	0-0	1	
130.9	TOXOPLASMOSIS			1	0-4	1	2
124	TRICHINOSIS			0	0-1		
086	TRYPANOSOMA CRUZI			0	0-0		2
013	TUBERCULOSIS - NON-RESP.	1	5	2	0-4	19	23
011	TUBERCULOSIS - RESP.	3	3	7	1-13	67	72
010	TUBERCULOSIS-PRIM.	1	1	1	0-3	15	5
021.9	TULAREMIA			0	0-1	1	1
002.0	TYPHOID			0	0-0		
081.9	TYPHUS			0	0-0		
B96.8	VANCOMYCIN R. ENTEROCOCCI	2	6		***	32	50
005.4	VIBRIO PARAHAEMOLYTICUS				***		
070.59	VIRAL HEP. OTHER				***		
047.0	VIRAL MENINGITIS-COXSACK	1		0	0-1	11	12
047.1	VIRAL MENINGITIS-ECHO			0	0-2	10	4
047.8	VIRAL MENINGITIS-ENTERO				***	5	2
054.72	VIRAL MENINGITIS-H SIMP			0	0-1		
047.9	VIRAL MENINGITIS-UNSPEC			0	0-1		
B95.7	VRSA			0	0-0		
062.1	W. EQUINE ENCEPHALITIS			0	0-0		
196	WNV ASYMPTOMATIC INFECTION				***	1	9
198	WNV NEUROLOGICAL SYNDROME				***	17	72
197	WNV NON-NEUROLOGICAL SYND				***	33	501
066.3	WNV UNCLASSIFIED		1		***		5
008.44	YERSINIA ENTEROCOLITICA	1		0	0-1	15	10
		348	**359**			**4518**	**5299**

* Mean of 15 month totals, from previous, comparable and subsequent months for the past 5 years

** Mean +/- 2 standard deviations of mean

*** Data collected for less than 5 years.

SUMMARY OF COMMUNICABLE DISEASE BY AGE AND GENDER FOR December 2007

		<1		1 - 4		5 - 9		10 - 14		15 - 19		20 - 24		25 - 29		30 - 39		40 - 49		50 - 59		60 - 69		70 - 79		80 +		Missing	Total
ICD9	Disease Name	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	age/gendr	
006.9	AMEBIASIS														1		1			1		1			1				5
005.2	C. PERFRINGENS											1																	1
008.43	CAMPYLOBACTER	1	1				1	1	1			1	1		1	3	1			1	1			1	1				16
558.2	CLOSTRIDIUM DIFFICILE			2		1					1			1	1	1	2	3	4	4	2	7	4	7	5	15	10		70
007.8	CRYPTOSPORIDIOSIS		1				1																						2
V02.4	DIPH. CARRIERS						1																						1
008.0	E.COLI 0157																									1	1		2
007.1	GIARDIA LAMBLIA	1		1	1	1										1		1	1										7
070.1	HEPATITIS A													1															1
070.51	HEPATITIS C									1	1	1	1	2	1	2	1	5	2	4		1						1	23
487.1A	INFLUENZA A				1																								1
487.1B	INFLUENZA B															1													1
027.0	LISTERIA MONOCYTOGENES																						1						1
088.81	LYME DISEASE																			1									1
084	MALARIA														1														1
B95.6	MRSA	5	3	12	3	8	8	8	4	7	4	8	5	4	6	9	7	5	10	2	6	8	2	7	7	9	12		169
072.9	MUMPS														1														1
728.86	NECROTIZING FASCIITIS												1				1	1	1	1									5
036.89	NEISSERIA MGTS(0ther)																					1							1
033.0	PERTUSSIS		1																										1
003.0	SALMONELLA	3								1	1		1			2				1	2			1		1			13
004	SHIGELLOSIS															1													1
038.2	STREP.PNEUMOCOCCAL SEPTIC	1								1		1					2	1	1	2	2					1			12
127.2	STRONGYLOIDIASIS											2		2	2				1										7
013	TUBERCULOSIS - NON-RESP.											1							3					1					5
011	TUBERCULOSIS - RESP.															1	1			1									3

ICD9	Disease Name	<1		1 - 4		5 - 9		10 - 14		15 - 19		20 - 24		25 - 29		30 - 39		40 - 49		50 - 59		60 - 69		70 - 79		80 +		Missing age/gendr	Total
		F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M		
010	TUBERCULOSIS-PRIM.							1																					1
B96.8	VANCOMYCIN RES. ENTER.												1	1										1	2	1			6
196	WNV Asymptomatic Infectio												1		1			1	1		3	1	1						9
198	WNV Neurological Syndrome			1							4			2	3	3	1	5	5	5	6	5	14	6	6	2	4		72
197	WNV Non-Neurological Synd							2	5	8	13	6	9	17	12	29	37	55	76	56	55	27	46	14	21	6	7		501
066.3	WNV Unclassified									1							1	1			2								5
		11	6	16	5	10	11	12	10	18	24	21	20	29	31	52	56	74	108	76	84	50	69	38	43	36	34		945

SUMMARY OF COMMUNICABLE DISEASE BY REGION (RHA) FOR December 2007

ICD9	Disease/Infection	Winnipeg	Brandon	N.Eastman		S.Eastman		Interlake		Central		Assiniboine		Parkland		Norman		Burntwood		Churchill	OOP	Missing	TOTAL
	*Case Referred to:**			*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*				
006.9	AMEBIASIS	5																					5
005.2	C. PERFRINGENS	1																					1
008.43	CAMPYLOBACTER	9	1				1		2		1		2										16
558.2	CLOSTRIDIUM DIFFICILE	46	1		5		3		4		4		1		3				3				70
007.8	CRYPTOSPORIDIOSIS	1														1							2
V02.4	DIPH. CARRIERS			1																			1
008.0	E.COLI 0157								1		1												2
007.1	GIARDIA LAMBLIA	3					3											1					7
070.1	HEPATITIS A	1																					1
070.51	HEPATITIS C	15			1				3		3				1								23
487.1A	INFLUENZA A																	1					1
487.1B	INFLUENZA B										1												1
027.0	LISTERIA MONOCYTOGENES	1																					1
088.81	LYME DISEASE										1												1
084	MALARIA				1																		1
B95.6	MRSA	58		3	1				2		2		2		5	7	10	73	5	1			169
072.9	MUMPS	1																					1
728.86	NECROTIZING FASCIITIS	1									2						1		1				5
036.89	NEISSERIA MGTS(Other)														1								1
033.0	PERTUSSIS	1																					1
003.0	SALMONELLA	11									1						1						13
004	SHIGELLOSIS	1																					1
038.2	STREP.PNEUMOCOCCAL SE PTIC	6	1				1										1	2	1				12
127.2	STRONGYLOIDIASIS	7																					7
013	TUBERCULOSIS - NON-RESP.	4							1														5
011	TUBERCULOSIS - RESP.	1								1								1					3
010	TUBERCULOSIS-PRIM.									1													1
B96.8	VANCOMYCIN RES. ENTER.	5							1														6
196	WNV Asymptomatic Infectio	1			1		1		1		2		3										9
198	WNV Neurological Syndrome	28	6		3		2		5		8		17		3								72

* F=Federal Jurisdiction (includes First Nations and Inuit Health Branch and Stony Mountain Penitentiary) P=Provincial Jurisdiction

ICD9	Disease/Infection	Winnipeg	Brandon	N.Eastman		S.Eastman		Interlake		Central		Assiniboine		Parkland		Norman		Burntwood		Churchill	OOP	Missing	TOTAL
*Case Referred to:**				*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*				
197	WNV Non-Neurological Synd	103	65		19		25		38		95		142		14								501
066.3	WNV Unclassified		1				1		1		2												5
		310	75	**4**	**31**		**37**		**59**	**2**	**123**		**167**		**27**	**8**	**13**	**78**	**10**	**1**			**945**
Missing Investigation Forms (Jan.1 to end of November)		118	14	2	2		6	3	16		7		14		5		7	6	2				202

* F=Federal Jurisdiction (includes First Nations and Inuit Health Branch and Stony Mountain Penitentiary) P=Provincial Jurisdiction

STD Infection Summary Report - December 2007

DISEASE/INFECTION	MONTHLY TOTAL 2006	MONTHLY TOTAL 2007	YEAR-TO-DATE 2006	YEAR-TO-DATE 2007
All Chlamydia Infections	291	504	4237	5615
All Gonorrhea Infections (including PRNG)	108	97	1578	1486
All Syphilis Infections	5	3	52	47
Gonorrhea & Chlamydia Co-infections	32	47	501	610
Penicillin Resistant Gonorrhea Infections (PRNG)				
Suspect PRNG				
HIV	7	3	81	82

Total Number of STD Cases by Age and Gender - December 2007

	<1		1 - 4		5 - 9		10 - 14		15 - 19		20 - 24		25 - 29		30 - 39		40 - 49		50 - 59		60 - 69		70 - 79		80 +		Missing age/gendr	Total
Disease Name	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M		
Chlamydia Only Cases							4		108	39	104	64	40	25	34	21	2	11	1	3		1						457
Gonorrhea Only Cases									9	5	5	12	4	4	4	1	2	3		1								50
Syphilis Only Cases													1		1		1											3
GC and CT Cases									11	6	11	6	1	5	4	2		1										47
							4		128	50	120	82	46	34	43	24	5	15	1	4		1						557
HIV																		2		1								3

Regional STD Distribution - December 2007

Disease/Infection	Winnipeg	Brandon	N.Eastman		S.Eastman		Interlake		Central		Assiniboine		Parkland		Norman		Burntwood		Churchill	OOP	Missing	TOTAL
*Case Referred to:**			F	P	F	P	F	P	F	P	F	P	F	P	F	P	F	P				
All Chlamydia Infections	244	15	8	8		12	13	14	3	21	1	12	3	10		17	88	31		4		504
All Gonorrhea Infections	35	1	6	2		1	3	5		2		2				2	27	11				97
All Syphilis Infections	2					1																3
GC and CT Infections	13		2			1	3	2		1		1				1	17	6				47
Missing Investigation Forms (Jan.1 to end of November)	243	24	5	18		13	3	30	1	24		20	8	9	2	30	39	24		1	1	495

* F=Federal Jurisdiction (includes First Nations and Inuit Health Branch and Stony Mountain Penitentiary) P=Provincial Jurisdiction